

1013 Re PCT/PTO 15 APR 2005

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q72653

Kenichiro NAKAJIMA

Appln. No.: National Stage Entry of PCT/JP03/13494

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: April 15, 2005

Examiner: Unknown

For: ALLOY CONTAINING RARE EARTH ELEMENT, PRODUCTION METHOD THEREOF,  
MAGNETOSTRICTIVE DEVICE, AND MAGNETIC REFRIGERANT MATERIAL

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under § 1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.S./

JC13 PCT/PTO 15 APR 2005

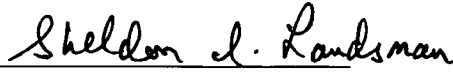
INFORMATION DISCLOSURE STATEMENT  
U.S. Appl. No.: National Stage PCT/JP03/13494  
Attorney Docket No.: Q872653

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of an English-language International Search Report dated February 10, 2004 for the corresponding International Application PCT/JP03/13494, including at least that portion of the International Search Report indicating the degree of relevance found by the International Searching Authority. Also, Applicant submits the following explanations: the articles in *Solid-State Physics* and *Materia Japan* are cited on pages 3 and 4 of the present specification and are discussed throughout the present specification. In addition, English language Patent Abstracts of Japan are enclosed for JP 2000-54086, 2002-356748 and 2002-69596, and the listed US 2004/0194855 corresponds to JP 2003-96547.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

  
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Date: April 15, 2005

Substitute for Form 1449 A & B/PTO  <b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>  (use as many sheets as necessary)				JC13 Re PCT/PTO 15 APR 2005 <small>completely known</small>	
				Application Number	National Stage Entry of PCT/JP03/13494
				Confirmation Number	Unknown
				Filing Date	April 15, 2005
				First Named Inventor	Kenichiro NAKAJIMA
				Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	Q72653
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 2004/0194855	A1	10-07-2004	Kazuaki Fukamichi et al
		US			
		US			
		US			
		US			
		US			
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	2000-54086	A	02-22-2000	Kazuaki Fukamichi	Abstract
		JP	2002-356748	A	12-13-2002	K.K. Toshiba	Abstract
		JP	2003-96547	A	04-03-2003	K. K. Toshiba	US 2004/0194855
		JP	2002-69596	A	03-08-2002	Kazuaki Fukamichi	Abstract

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>	
		Maya FUJITA et al, "Itinerant-Electron Metamagnetic La(Fe <sub>x</sub> Si <sub>1-x</sub> ) <sub>13</sub> Compounds," <i>Solid-State Physics</i> , vol. 37, no. 6, (2002), p. 419-427		
		Maya FUJITA et al, "Large Volume and Magnetocaloric Effect of Itinerant-Electron Metamagnetic La(Fe <sub>x</sub> Si <sub>1-x</sub> ) <sub>13</sub> Compounds," <i>Materia Japan</i> , vol. 41, no. 4, (2002), p. 269-275		
		S. FUJIEDA et al, "Large Magnetic Magnetocaloric Effect in La(Fe <sub>x</sub> Si <sub>1-x</sub> ) <sub>13</sub> Itinerant-Electron Metamagnetic Compounds," <i>App. Phys. Lett.</i> , vol. 81, no. 7, August 2002, p. 1276-1278		
		S. FUJIEDA et al, "Giant Isotropic Magnetostriction of Itinerant-Electron Metamagnetic La(Fe <sub>0.88</sub> Si <sub>0.12</sub> ) <sub>13</sub> H <sub>v</sub> Compounds", <i>App. Phys. Lett.</i> , vol. 79, no. 5, July 2001, p. 653-655		

Examiner Signature	/John Sheehan/	Date Considered	03/19/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.S./